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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 09/901,153 | 07/10/2001 | Hyun-sook Kang | Q63309 | 5826 |
| 7590 | 11/10/2005 | | EXAMINER | |
| SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213 | | | SAM, PHIRIN | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2661 | |

DATE MAILED: 11/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|-----------------|--------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 09/901,153 | KANG ET AL. |
| Examiner | Art Unit | |
| Phirin Sam | 2661 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 17 June 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 8 is/are allowed.
 6) Claim(s) 1-7,9,10,12-14 and 16-18 is/are rejected.
 7) Claim(s) 11 and 15 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

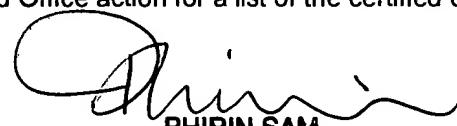
Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 17 June 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.



PHIRIN SAM
PRIMARY EXAMINER

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 9, 10, 12-14, and 16-18, are rejected under 35 U.S.C. 102(e) as being anticipated by US Pub 2001/0002912 (hereinafter referred as “Tony”).

Regarding claims 9 and 13, Tony discloses a wireless communication system having at least one slave device, and a master device that is connected to the slave device (see Fig. 6, paragraph [0085]) and that has information of addresses allocated to the slave devices, the slave device obtaining an address of the destination slave device from the master device (paragraph [0085]), generating a packet including the address of the destination slave device as a destination address and its address as a source address, and transmitting the packet to the master device (paragraph [0085]), and the master device reading the received packet, and transmitting the packet to the slave device of the destination address, when the address recorded in a destination address region of the packet is the address of the slave device (see paragraph [0085]).

Regarding claims 10 and 14, Tony discloses the slave device records the address of the destination slave device in a header region of the packet, and the master device recognizes the information recorded in the header region of the packet as the destination address (see Fig.10, paragraph [0085]).

Regarding claims 12 and 16, Tony discloses the address is an active member address which the master device allocates to distinguish the respective slave devices (see Fig. 10, paragraphs [0085] and [0086]).

Regarding claims 17 and 18, Tony discloses A communication method for a wireless communication system having at least one slave device, and a master device that is connected to the at least one slave device and that has information of addresses allocated to the at least one slave devices, the method comprising:

- (a) the master device analyzing a packet received directly from the first slave device (see Fig. 10, paragraph [0085]);
- (b) the master device transmitting the packet directly to the second slave device of a destination address, when an address recorded in a destination address region of the packet is the address of the second slave device (see Fig. 10, paragraph [0085]).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,275,500 (hereinafter referred as “Callaway, Jr.”) in view of US Patent 6,775,258 (hereinafter referred as “Van Valkenburg”).

Callaway, Jr. discloses the invention (**amended claims 1, 3, 5, and claim 2**) as claimed including a wireless communication device of a wireless communication system having at least one slave device, and a single master device that is connected to the slave device (see Fig. 2, elements 2, 1, and 3-7) and that has information of addresses allocated to the slave devices, the wireless communication device comprising:

- (a) a transceiving unit for receiving an external data, and transmitting a transmission-destined signal (see Fig. 15, element 54, col. 6, lines 54-58);
- (b) a controller which, when the wireless communication device is operated as a slave device connected to the single master device (see Fig. 3) and the slave device intends to communicate with another slave device (see Figs. 2, 13, col. 3, lines 2-12, col. 5, lines 9-27), generates a packet where an address of a destination slave device received from the single master device through the transceiving unit is recorded in a destination address region, and transmits the packet

through the transceiving unit to the destination slave device only through the single master device (see Figs. 13 and 15, col. 5, lines 10-44, col. 6, lines 65-67, and col. 7, lines 1-4, 19-46).

Callaway, Jr. does not disclose record an address of a destination slave in a destination address region. However, Van Valkenburg discloses record an address of a destination slave in a destination address region (see Fig. 3, col. 6, lines 1-10, col. 8, lines 55-61). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine record the address of the destination slave in the destination address region teaching by Van Valkenburg with Callaway, Jr. The motivation for doing so would have been to provide to identify the packet intended to the destination node. Therefore, it would have been obvious to combine Van Valkenburg and Callaway, Jr. to obtain the invention as specified in the claims 1-3 and 5.

Regarding claim 4, Callaway, Jr. does not disclose the source address is allocated by the master device. However, Van Valkenburg discloses the address allocated by the master device (see Fig. 3, col. 5, lines 54-59). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the source address is allocated by the master device teaching by Van Valkenburg with Callaway, Jr. The motivation for doing so would have been to provide to identify the packet from which node the packet sending from. Therefore, it would have been obvious to combine Van Valkenburg and Callaway, Jr. to obtain the invention as specified in the claim 4.

Regarding amended claim 6 and claim 7, Callaway, Jr. discloses a wireless communication device of a wireless communication system having at least one slave device, and a master device that is connected to the at least one slave device, and a master device that is

connected to the at least one slave device and that has information of addresses allocated to the at least one slave devices, the wireless communication device comprising:

- (a) a transceiving unit for receiving an external data, and transmitting a transmission destined signal (see Fig. 15, element 54, col. 7, lines 19-46);
- (b) a controller which, when the wireless communication device is operated as a master device connected to the at least one slave device, reads a packet received directly from at least one slave device via the transceiving unit and transmits the packet directly to a corresponding slave device through the transceiving unit (see Fig. 13, col. 5, lines 9-34).

Callaway, Jr. does not disclose an address of the corresponding slave device recorded in a destination address region of the packet. However, Van Valkenburg discloses the address of the corresponding slave device recorded in the destination address region of the packet (see Fig. 3, col. 6, lines 1-10, col. 8, lines 55-61). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the address of the corresponding slave device record in the destination address region of the packet teaching by Van Valkenburg with Callaway, Jr. The motivation for doing so would have been to provide to identify the packet intended to the destination node. Therefore, it would have been obvious to combine Van Valkenburg and Callaway, Jr. to obtain the invention as specified in the claims 6 and 7.

Allowable Subject Matter

6. Claims 11 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
7. Claim 8 is allowed.

Response to Arguments

8. Applicant's arguments with respect to claims 1-7, 9, 10, 12-14, and 16-18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

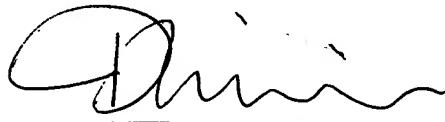
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phirin Sam whose telephone number is (571) 272-3082. The examiner can normally be reached on a compress schedule, from 8:00-5:30, first Wed off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on (571) 272 - 3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully submitted,

Date: November 8, 2005



PHIRIN SAM
PRIMARY EXAMINER